AMENDMENT

IN THE CLAIMS:

Please amend claim 1 and add new claims 8-15 as follows.

1. (Amended) A DC motor comprising:

a rotor unit which is rotatably arranged within the motor and has a cylindrical field magnet fixed to holder means into which a rotating shaft is press-fitted at a center thereof, said cylindrical field magnet being magnetized such that S and N poles alternate with each other in a [circuferential] circumferential direction thereof; and

a stator unit which is circumferentially [arrenged] <u>arranged</u> around said rotor unit and is comprised of a plurality of stator yokes so arranged as to oppose said field magnet with a small gap, each of said stator yokes being formed by circumferentially stacking a large number of thin plates each of which constitutes a salient pole, and a plurality of coil units, each being formed by winding a magnet wire on a bobbin and mounted on each of said stator yokes;

8. (New claim) A DC motor, comprising:

a rotor unit which is rotatably arranged within the motor and has a cylindrical field magnet fixed to a holder to which a rotating shaft is coupled, said cylindrical field magnet being magnetized such that S and N poles alternate with each other in a circumferential direction thereof; and

a stator unit which is circumferentially arranged around said rotor unit and includes a plurality of stator yokes so arranged as to oppose said field magnet, each of said stator yokes including a large number of circumferentially-stacked thin plates each of which constitutes a salient pole, and a plurality of coil units;

- 9. (New claim) The DC motor according to claim 8, wherein said rotating shaft is pressfitted at a center of said holder.
- 10. (New claim) The DC motor according to claim 8, wherein each of said coil units is formed by winding a magnet wire on a bobbin and mounted on each of said stator yokes.
- 11. (New claim) The DC motor according to claim 8, wherein the shift amount of respective stages falls within a range of 12° to 50° in an electrical angle.

- 12. (New claim) The DC motor according to claim 8, wherein a rotor position detection element is adjusted by 1/2 the shift amount of respective stages.
- 13. (New claim) The DC motor according to claim 8, wherein the motor is an inner rotor type brushless DC motor.
- 14. (New claim) The DC motor according to claim 8, wherein the DC motor is an outer rotor type brushless DC motor.
- 15. (New claim) The DC motor according to claim 8, wherein the DC motor has three phases, eight poles and six stator units in which a basic degree of a cogging torque thereof is 24.

CLEAN-COPY LIST OF ALL PENDING CLAIMS AS AMENDED HEREIN

1. A DC motor comprising:

a rotor unit which is rotatably arranged within the motor and has a cylindrical field magnet fixed to holder means into which a rotating shaft is press-fitted at a center thereof, said cylindrical field magnet being magnetized such that S and N poles alternate with each other in a circumferential direction thereof; and

a stator unit which is circumferentially arranged around said rotor unit and is comprised of a plurality of stator yokes so arranged as to oppose said field magnet with a small gap, each of said stator yokes being formed by circumferentially stacking a large number of thin plates each of which constitutes a salient pole, and a plurality of coil units, each being formed by winding a magnet wire on a bobbin and mounted on each of said stator yokes;

- 2. A DC motor according to claim 1, wherein the shift amount of respective stages falls within a range of 12° to 50° in an electrical angle.
- 3. A DC motor according to claim 1, wherein a rotor position detection element is adjusted by 1/2 the shift amount of respective stages.

- 4. A DC motor according to claim 1, wherein the motor is an inner rotor type brushless DC motor.
- 5. A DC motor according to claim 1, wherein the DC motor is an outer rotor type brushless DC motor.
- 6. A DC motor according to claim 4, wherein the DC motor has three phases, eight poles and six stator units in which basic degree of a cogging torque thereof is 24.
- 7. A DC motor according to claim 5, wherein the DC motor has three phases, eight poles and six stator units in which basic degree of a cogging torque thereof is 24.

8. A DC motor, comprising:

a rotor unit which is rotatably arranged within the motor and has a cylindrical field magnet fixed to a holder to which a rotating shaft is coupled, said cylindrical field magnet being magnetized such that S and N poles alternate with each other in a circumferential direction thereof; and

a stator unit which is circumferentially arranged around said rotor unit and includes a plurality of stator yokes so arranged as to oppose said field magnet, each of said stator yokes including a large number of circumferentially-stacked thin plates each of which constitutes a salient pole, and a plurality of coil units;

- 9. The DC motor according to claim 8, wherein said rotating shaft is press-fitted at a center of said holder.
- 10. The DC motor according to claim 8, wherein each of said coil units is formed by winding a magnet wire on a bobbin and mounted on each of said stator yokes.
- 11. The DC motor according to claim 8, wherein the shift amount of respective stages falls within a range of 12° to 50° in an electrical angle.

- 12. The DC motor according to claim 8, wherein a rotor position detection element is adjusted by 1/2 the shift amount of respective stages.
- 13. The DC motor according to claim 8, wherein the motor is an inner rotor type brushless DC motor.
- 14. The DC motor according to claim 8, wherein the DC motor is an outer rotor type brushless DC motor.
- 15. The DC motor according to claim 8, wherein the DC motor has three phases, eight poles and six stator units in which a basic degree of a cogging torque thereof is 24.